BBA

Molecular Cell Research
including Signal Transduction
Vol. 1137, 1992

Cumulative Contents

Regular Section

Regular Papers

Platelet adhesion to collagen-coated wells: analysis of this complex process and a comparison with the adhesion to matrigel-coated wells
M. Moroi, M. Okuma and S.M. Jung (Japan) 1

Skeletal muscle P_i transport and cellular $[P_i]$ studied in L6 myoblasts and rabbit muscle-membrane vesicles
G.J. Kemp, K.E. Polgreen and G.K. Radda (UK) 10

What dual-action agents reveal about acid secretion: a combined experimental and modeling analysis
V. Ličko and E.B.M. Ekblad (USA) 19

Failure of tachykinins including substance P and its fragments to influence proteoglycan and protein synthesis in bovine chondrocytes in vitro
D.A. Halliday, J.D. McNeil and R. Scicchitano (Australia) 29

Reducing-equivalent transfer to the mitochondria during gluconeogenesis and ureogenesis in hepatocytes from rats of different thyroid status
R.B. Gregory, J.W. Phillips and M.N. Berry (Australia) 34

Evidence for the existence of RNA of Ca^{2+}-channel α_2/δ subunit in *Xenopus* oocytes
D. Singer-Lahat, I. Lotan, K. Itagaki, A. Schwartz and N. Dascal (Israel, USA) 39

Regulation mechanisms of intracellular pH of *Xenopus laevis* oocyte
S. Sasaki, K. Ishibashi, T. Nagai and F. Marumo (Japan) 45

Interleukin-1β enhances the response of human articular chondrocytes to extracellular ATP
A.M. Caswell, W.S. Leong and R.G.G. Russell (UK) 52

Pulsed static magnetic field effects on in-vitro pineal indoleamine metabolism
B.A. Richardson, K. Yaga, R.J. Reiter and D.J. Morton (USA) 59

A retrovirus encoding the v-*fps* protein-tyrosine kinase induces factor-independent growth and tumorigenicity in FDC-P1 cells
K.A. Meckling-Gill, S.-P. Yee, J.W. Schrader and T. Pawson (Canada) 65

Rapid Report

The synthesis of $p58^{cyclin\ A}$ and the phosphorylation of $p34^{cdc2}$ are inhibited in human lymphoid cells arrested in G_1 by α-interferon
A. Bybee and N.S.B. Thomas (UK) 73

Photoaffinity labeling of integrin αIIbβ3 (glycoprotein IIb-IIIa) on intact platelets with 8-azido-[γ-^{32}P]ATP
P. Mayinger and M. Gawaz (Germany) 77

Subsection

Regular Papers

Mobilization of diacylglycerol in intact HeLa cells by exogenous phospholipase C from *Cl. perfringens* is accompanied by release of fatty acids including arachidonic acid
K. Schiess, M. Kaszkin, P. Jordan, L. Seidler and V. Kinzel (Germany) 82

α_5 Integrin subunit expression changes during myogenesis
B. Steffensen, V.L. Magnuson, C.L. Potempa, D. Chen and R.J. Klebe (USA) 95

Enhancement of ganglioside GM3 synthesis in okadaic-acid-treated granulosa cells
M.-a. Hattori and R. Horiuchi (Japan) 101

Characterization of thromboxane A_2/prostaglandin H_2 receptors and histamine H_1 receptors in cultured Guinea-pig tracheal smooth-muscle cells
I. Miki, H. Nonaka and A. Ishii (Japan) 107

Antiproliferative effect of phorbol esters on MCF-7 human breast adenocarcinoma cells: relationship with enhanced expression of transforming growth-factor-β_1
M. Guerrin, H. Prats, P. Mazars and A. Valette (France) 116

Rapid Report

Regulation of spinach-leaf nitrate reductase by reversible phosphorylation
C. MacKintosh (UK) 121

Regular Section

Regular Papers

Secretagogue-induced proteolysis of lung spectrin in alveolar epithelial type II cells
U.-J.P. Zimmerman, D.W. Speicher and A.B. Fisher (USA) 127

Cultured chick-embryo heart cells respond differently to ouabain as measured by the increase in their intracellular Na^+ concentration
B. Ahlemeyer, H. Weintraut and W. Schoner (Germany) 135

Bretylium-induced voltage-gated sodium current in human lymphocytes
R. Gáspár, Jr., Z. Krasznai, T. Márián, L. Trón, R. Recchioni, M. Falasca, F. Moroni, C. Pieri and S. Damjanovich (Hungary, Italy) 143

Transferrin and iron distribution in subcellular fractions of K562 cells in the early stages of transferrin endocytosis
D. Vyoral, A. Hradilek and J. Neuwirt (Czechoslovakia) 148

Iron(III)-binding polypeptide in human cord and adult serum: isolation, purification and partial characterization
S. Stojkovski, W. Goumakos and B. Sarkar (Canada) 155

Activation of a small-conductance Ca^{2+}-dependent K^+ channel contributes to bradykinin-induced stimulation of nitric oxide synthesis in pig aortic endothelial cells
K. Groschner, W.F. Graier and W.R. Kukovetz (Austria) 162

Poly(ADP-ribosyl)ation of chromatin in an in-vitro poly(ADP-ribose)-turnover system
H. Thomassin, L. Ménard, C. Hengartner, J.B. Kirkland and G.G. Poirier (Canada) 171

Activation of the oxygen-radical-generating system in granules of intact human neutrophils by a calcium ionophore (ionomycin)
C. Dahlgren, A. Johansson, H. Lundqvist, O.W. Bjerrum and N. Borregaard (Sweden, Denmark) 182

Excessive production of transforming growth-factor β1 can play an important role in the development of tumorigenesis by its action for angiogenesis: validity of neutralizing antibodies to block tumor growth
N. Ueki, M. Nakazato, T. Ohkawa, T. Ikeda, Y. Amuro, T. Hada and K. Higashino (Japan) 189

Subsection

Minireview

Mechanisms of cellular calcium oscillations in secretory cells
A.V. Tepikin and O.H. Petersen (UK) 197

Regular Papers

Insulin effect on isolated rat hepatocytes: diacylglycerol — phosphatidic acid interrelationship
P.M. Baldini, A. Zannetti, V. Donchenko, L. Dini and P. Luly (Italy) 208

Purification of an active receptor for acidic and basic fibroblast growth factor from bovine retina
A. Torriglia and P.R. Blanquet (France) 215

Rapid regulation of albumin transcription by insulin and phorbol esters in rat hepatoma cells
J.L. Messina (USA) 225

Induction of peroxisomal β-oxidation enzymes by dehydroepiandrosterone and its sulfate in primary cultures of rat hepatocytes
J. Yamada, M. Sakuma and T. Suga (Japan) 231

Requlation of lipoprotein lipase by dibutyryl cAMP, cholera toxin, Hepes and heparin in F_1 heart-cell cultures
G. Friedman, A. Reshef, M. Ben-Naim, E. Leitersdorf, O. Stein and Y. Stein (Israel) 237

Regular Section

Regular Papers

Glycine transformation of Ca^{2+} oscillations into a sustained increase parallels potentiation of insulin release
A. Tengholm, N. McClenaghan, E. Grapengiesser, E. Gylfe and B. Hellman (Sweden) 243

Monoclonal antibody AG-1 initiates platelet activation by a pathway dependent on glycoprotein IIb-IIIa and extracellular calcium
M.H. Kroll, M.E. Mendelsohn, J.L. Miller, K.K. Ballen, J.K. Hrbolich and A.I. Schafer (USA) 248

Modulation of mitomycin C resistance by glutathione transferase inhibitor ethacrynic acid
S.V. Singh, B.H. Xu, A.K. Maurya and A.M. Mian (USA) 257

The interaction of tetanus toxin with intact bovine adrenal chromaffin cells: binding of toxin and subsequent inhibition of catecholamine release
C.A. Colville, M.K. Bansal, J.H. Phillips and S. Van Heyningen (UK) 264

Inhibitory effects of pectic substances on activated hyaluronidase and histamine release from mast cells
Y. Sawabe, K. Nakagomi, S. Iwagami, S. Suzuki and H. Nakazawa (Japan) 274

Inhibition of platelet adhesion and thrombus formation on a collagen-coated surface by novel carbamoylpiperidine antiplatelet agents
B.R. Alevriadou, L.V. McIntire and A. Lasslo (USA) 279

Effects of cycloheximide, brefeldin A, suramin, heparin and primaquine on proteoglycan and glycosaminoglycan biosynthesis in human embryonic skin fibroblasts
L.-Å. Fransson, P. Karlsson and A. Schmidtchen (Sweden) 287

Subsection

Minireview

Nicotinic acetylcholine receptors of the central nervous system of *Drosophila*
E.D. Gundelfinger and N. Hess (Germany) 299

Regular Papers

Molecular dynamics of luteinizing hormone receptors on rat luteal cells
D.A. Roess, N.A. Rahman, N. Kenny and B.G. Barisas (USA) 309

trans-5-Prostaglandin E_2 stimulates plasminogen activation by tissue-type plasminogen activator
M. Shimokawa, T. Urano and T. Kinoshita (Japan) 317

A lymphocyte-specific protein tyrosine kinase, $p56^{lck}$, regulates the PMA-induced internalization of CD4
H. Yoshida, Y. Koga, K. Nakamura, G. Kimura and K. Nomoto (Japan) 321

Activators of protein kinase C decrease serotonin transport in human platelets
G.M. Anderson and W.C. Horne (USA) 331

Phytohormonal regulation of *S*-adenosylmethionine synthetase by gibberellic acid in wheat aleurones
M. Mathur, M. Satpathy and R.C. Sachar (India) 338

Substrate-specific modulation of *Src*-mediated phosphorylation of Ras and caseins by sphingosines and other substrate modulators
M. Abdel-Ghany, M. Osusky, Y. Igarashi, S. Hakomori, D. Shalloway and R. Racker (USA) 349

Cumulative Contents 357

Author Index 360